

Structure of Cemented Carbide Compositions, by
H. Franzen, 24 pp

GERMAN, DEX, Archiv Eisenhüttenwesen, Vol XIX,
1948, pp 79-84

FOD/X 1329
DEX Deutscher Patent

4104

Metals
Scientific - Min/DEX

\$9.80

The Influence of the Elements on the Polymorphism of
Iron, by Willy Oelsen, Franz Weyer, 18 pp.

GERMAN, per, Arch Eisenhüttenw, Vol ~~XV~~ XIX, 1948,
pp 97-104.

AEC Tr 2669

Sci - Min/Metals
Jan 57 CTS

42,167

the Metallurgy of the Basic Converter Process,
W. Gelsen. H. Meetz.

ERMAN, per, Archiv fuer Eisenhüttenwesen, Vol XIX,
48, pp 111-117.

BISI 2292

1 - Min/Met

1 61

16/069

Trömel, Gerhard and Gedachold, Hermann.
THE PRODUCTION OF VANADIUM FROM SLAGS
RESULTING IN STEEL PRODUCTION (Die Gewinnung
von Vanadin aus Schlacken, die bei der Stahlerzeugung
Anfallen). [1963] [23] p. (foreign text included) 12 refs.
Order from SLA \$2.60 63-14375

Trans. of Archty für das Eisenhüttenwesen (West
Germany) [1948] v. 19, p. 119-124.

DESCRIPTORS: *Vanadium, Production, *Slags, Steel,
Manganese, Spinel, Sodium compounds, Chlorine
compounds, Carbon compounds, Oxides, Manufacturing
methods.

After a brief survey on the industrial experiences in
the obtaining and processing of vanadium-containing
slags, experiments are reported on for determining
in the laboratory the conditions for as complete
obtaining of pure vanadium as possible. The constitution
(Metallurgy, IT, v. 10, no. 7) (over)

63-14375

I. Trömel, G.
H. Gedachold, H.

Office of Technical Services

The Ratio of Notched-Bar Impact Toughness Using
Various Specimens, by C. Bihlmaier.

GERMAN, per, Archiv fur das Eisenhuettenwesen, Vol XX,
No 1/2, 1949, pp 31-35.

D.S.I.R./12196/CT

Scientific - Engineering

DEX ONLY

12,169

The Determination of Spread in the Hot-Rolling
of Steel by Smooth Rolls, by Werner Lueg,
23 pp.

GERMAN, per, Archiv fur das Eisenhuettenwesen,
Vol XX, No 1/2, 1949, pp 59-68.

SIA 60-18285

Sci

Apr 61

146,136

Creep Tests of Some Unalloyed Basic Bessemer
Steels and High-Alloy, Heat-Resisting Steels
at 500 to 900°C, by A. Pomp, A. Kirsch, 25 pp.

GERMAN, per, Archiv Eisenhüttenwesen, Vol XX,
No 3, 4, 1949, pp 125-134. (loan copy only)

SIA 57-2617

Sci
Aug 58



4625

62-16958

Hoff, H. and Dunk, G. von der.
TESTING THE UNIFORMITY OF ZINC COATINGS
ON STEEL WIRE BY DIPPING IN CuSO_4 SOLU-
TIONS. [1962] 7p. (figs. refs. omitted).
Order from SLA \$1.10

62-16958

Trans. of Arch[iv] f[ür] d[as] Eisenhüttenwesen
(West Germany) 1949 [v. 20, no. 3/4] p. 135-138.

DESCRIPTORS: *Zinc coatings, *Steel wire, Process-
ing, Solutions, Copper compounds, Sulfur compounds,
Oxides.

(Metallurgy, TT, v. 8, no. 9)

I. Hoff, H.
II. Dunk, G. von der

Office of Technical Services

Dipper, M.
CALCULATION AND STUDY OF IMPACT EXTRU-
SION OF SHELLS. [1962] 18p. (24 figs. 11 tables
31 formulae refs. omitted).
Available on loan from SLA

62-16948

Trans. of Archiv für das Eisenhüttenwesen (West
Germany) 1949, v. 20, no. 9/10, p. 275-286.

DESCRIPTORS: *Cylindrical bodies, *Extrusion,
Impact shock, Deformation, Plastic flow, Hardening,
Statics.

(Machinery--Manufacturing, TT, v. 8, no. 5)

62-16948

1. Dipper, M.

Office of Technical Services

Fundamentals of Flow in Industrial Furnaces, by
Michael Hansen, 20 pp.

GERMAN, per, Archiv fur das Eisenhüttenwesen,
Vol XX, No 11/12, 1949, pp 337-344.

SLA 60-18286

Sci

Apr 61

146,130

Supersonic Frequency Generator for Non-Destructive
Material Testing, by H. and J. Krautkramer, O. Rudiger.

GERMAN, Arch Eisenhüttenw, Vol XX, No 11/12, Nov/
Dec 1949, pp 355-358.

TPA3/TIB Trans T 3933
P22317T

ECur - Germany

Scientific - Electronics, generator, frequency,
supersonic, testing

Index Aeronauticus

*Also see British Office
No 28.72*

Wentrup, Hanns and Reif, Otto.
ON THE SOLUBILITY OF NITROGEN IN MOLTEN
IRON WITH CHROMIUM, MANGANESE AND NICKEL
ADDITIONS. [1963] [17]p. 6 refs.

Order from SLA \$1.60

63-16837

Trans. of Archiv für das Eisenhüttenwesen
(West Germany) 1949, v. 20 [no. 11/12]
p. 359-363.

DESCRIPTORS: Additives, *Nickel alloys, *Manganese
alloys, *Chromium alloys, *Iron alloys, Liquid metals,
*Nitrogen, Solubility, High temperature research,
Oxygen.

The receptivity of iron-chromium, iron-manganese,
iron-nickel, iron-chromium-manganese, and iron-
chromium-nickel melts for nitrogen was investigated
at 1600°C and sometimes also at 1700°C, and at the
solidification point. Chromium and manganese
(Metallurgy, TT, v. 10, no. 9) (over)

63-16837

I. Wentrup, H.
II. Reif, O.

Office of Technical Services

The Effect of Welding Defects on Tensile
Endurance Limit in ST 37 Steel Specimens, 16 p.
by M. Hempel, H. Moller
GERMAN, per, Arch Eisenhüttenw., 1949, Vol XX,
No 11/12, pp 375-383.

ATS-01L343

Sci
Mar 60
Vol 2, No 11

109,603

Embrittlement of Hardened Steel on Tempering
Between 250 - 400°, by H. Schrader.
GERMAN, per, Arch Eisenh, Vol 21, Jan/Feb
1950, pp 21-31.
BISI 5062

314,504

Sci - Mechanical, Industrial,
Civil, and Marine Engineering
Dec 66

A Contribution to the Metallurgy of the Blast-Furnace, by Theo Kootz, Willy Olsen, 24 pp.

GERMAN, per, Archiv für das Eisenhüttenwesen, Vol XXI, No 3/4, 1950, pp 77-88.

SLA 60-18628

Sci

Apr 61

146,110

Creep of Steel at Room Temperature under
Static Load, by W. Janiche, G. Thiel, 4 pp.

GERMAN, per, Archiv Eisenhüttenwesen, Vol XII,
1950, pp 105-118. (loan copy only)

SIA 57-2620

Sci
Aug 58

70,896

62-10453

I. Krainer, H.
II. Title: Physical. . .

Krainer, Helmut.
INVESTIGATIONS ON TITANIUM CARBIDE AND
TITANIUM CARBIDE-CONTAINING HARD METAL
ALLOYS. Pt. 2 of Physical Investigations on Hard
Metal Alloys. [1961] [17]p. 62 refs.
Order from SLA \$1.60 62-10453

Trans. of Archiv fur das Eisenhüttenwesen (West
Germany) 1950, v. 21, no. 3/4, p. 123-127.

DESCRIPTORS: *Titanium compounds, *Carbides,
Metals, Alloys, X-rays, Sintered alloys, Met-
allurgical analysis, Graphite, Lattices, Production,
Quality control, Sintering, Grains (Metallurgy).

(Metallurgy--Structural, TT. v. 7, no. 8)

Office of Technical Services

TT-63-20490

Fink, Kurt.

A DYNAMIC CALIBRATION OF WIRE STRAIN GAGES
(Eine Dynamische Eichung von Dehnungsmessstreifen).
[1963] [16p] (foreign text included) 14 refs

Order from SLA \$1.60

TT-63-20490

Trans. of Archiv für das Eisenhüttenwesen (West
Germany) 1950, v. 21, no. 3/4, p. 137-142 (Max Planck
Institut für Eisenforschung (West Germany)), Communica-
tion-510. (Abstract available)

DESCRIPTORS: *Strain gages, Calibration, Oscillo-
graphs, Shock waves, Wire, Amplifiers.

Shock waves produced by impact in a cylindrical steel
bar were photographed with elongation strip charts, a
tube amplifier and an electron beam oscillograph. Com-
parison of the measured shock wave path with the com-
puted one shows satisfactory agreement within measur-
ing accuracy. Consequently, the elongation strip chart
(Engineering--Electrical, TT, v. 11, no. 2) (over)

I. Fink, K.

II. Max ... Communication-510

Office of Technical Services

The Transformation Kinetics of Steels; the
Composition of the Reactants During the
Transformation of a Chromium-Manganese Steel in
the Pearlite Range, by Franz Wever, Walter Koch,
16 pp.

GERMAN, per, Archiv fur das Eisenhüttenwesen,
Vol XXI, No 5/6, 1950, pp 143-152.

SLA 60-18629

Sci

Apr 61

146,165

Transformation Processes as Cause of Cracking in Deep
Carburized Steel Parts, by F. Bruhl, H. J. Wiester.

Gekman
RUSSIAN, per, Archiv Fur Das Eisenhüttenwesen,
Vol XXI, 1950, pp 159-163.

Brutcher Tr No 2554

16,676

Scientific - Min/Metals

\$5.85

The Behavior of Steel ST 37 in the Time
Strength Range, by E. Gerold, K. Trachte,
11 pp.

GERMAN, per, Archiv fuer das Eisenhuettenwesen,
Vol XXI, No 5/6, May/June 1950, pp 173-179.

S.L.A.

Scientific - Minerals/Metals
CTS 70/Jul 55

25,182

The Influence of Alternating and Impact-Life
Overloads Upon the Life of Steel Under Alternating
Bending Loading, by A. Drozd, E. Gerold, E. H.
Schulz, 16 pp.

GERMAN, per, Archiv für das Eisenhüttenwesen,
Vol XXI, No 5-6, May-Jun 1950, pp 181-185.

S.L.A.

Scientific - Minerals/Metals CTS 68/May 55

22,882

V

The Development of the Slurry-Settling Process
and its Significance in the Processing of Iron
Ores, by Ernst Bierbrauer, 40pp.

GERMANY, per Archiv für das Eisenhüttenwesen,
Vol XXI, 1950, pp 273-282.

S.L.A. Tr 45

32,740

EEur - Germany
Scientific - Minerals/Metals

Influence of Alloy Addition on Diffusion of H
in Fe and Contribution of the System Fe-H, by
W. Geller.

GERMAN, per. Arch Eisenh. No 21, 1950, pp 423-30.
*NBS TT 70-57429

Sol-Mat
Aug 70

Optical Temperature Measurements of Luminous Flames
by Gerhard Naeser, & Werner Pepperhoff, 18 pp.

GERMAN, per, Arch fuer Eisenhuettenwesen, Vol XXII,
No 1/2, 1951, pp 9-14.

SLA 59-10339

Sci - Chem
Sep 59
Vol 2, No 1

97,285

Sealing Problems and Accelerated Life-Testing
of Epoxy-Bonded Alloys, by H. Krainer, L.
Wettermark, O. Carlson. UNCL.

OSRD/46, par, Arch Eisenhuettenwesen, Vol XXII,
Mar/Apr 1951, pp 103-110.

British Iron and Steel Ind
(no number given)

Sci - Min/Ind
Sep 59

98 231

Patenting and Drawing Experiments on Austenitic Coarse- and Fine-Grained Steel Wires and the Influence of Small Contents of Carbide-Forming Alloy Elements, by Werner Papendorf, 23 pp.

GERMAN, per, Archiv fur das Eisenhüttenwesen, Vol XXII, No 3/4, 1951, pp 87-98.

SLA 60-18630

Sci

Apr 61

146,112

Qualitative Analysis of Alloy Steels -- Detection
of Vanadium, Tungsten, Molybdenum, Chromium, and
Manganese, by C. Beermann, H. Hartmann.

GERMAN, per, Archiv fur das Eisenhüttenwesen,
Vol XXXI, Nos 5, 6, 1951, p 159.

Brutcher Tr 2770

Scientific - Min/Metals \$2.60

12,714

Contribution to the Theory and Practice of
Pressing Powdered Materials, by C. Ballhausen,

GERMAN, per, Archiv f.d. Eisenhüttenwesen,
Vol XXII, No ~~5-6, 1971, pp 185-186.~~

23,159

Brutcher Tr No 3393
\$12.85

Scientific - Min/Metals

Apr
Mps: 55 CTS

A Contribution to the Mechanics of Industrial
Deep Drawing, by H. Kostron

GERMAN, pop, Arch Eisenhuttentw, Vol XXII, No 7/8,
Jul/Aug 1951, pp 205-213.

OTC 12-16-51
TPA3/TIB T 4112

Scientific - Mechanics/Metals
CPS/DEM

8196

Investigation of a New Process of Hot Deep
Drawing, by D. Lenz,

GERMAN, per, Arch. Eisenhüttenw., Vol XXII,
No 7/8, 1951, pp 215-224.

Aluminium Lab, LTD.
B-TM-150-54
OT/1113

21,827

Scientific - Min/Metals

Mar 55 CTS

The Mathematics of Tensile Strengths, by H. Kostron.

Full translation.

GERMAN, Arch Eigenhutenw, Vol 22, No 9/10,
pp 317-325, Sep/Oct 1951.

TPA3/TIB Tr No T 3550

Scientific - Engineering

Index Aeronautics, March 1953

Room Temperature Creep Tests on Steel Wire, by
A. Kirsch.

GERMAN, per, Archiv Eisenhüttenwesen, Vol. XXII,
No 9/10, 1951, pp 313-316.

Brutcher No 3361
\$4.90

Sci - Min/metals

40,654

Radio Tracer Technique as Applied to Investigation
of the Metallurgical Processes in a 50-Ton Open-
Hearth Furnace, by W. Koch and K. Pink.

GERMAN, Archiv Fur Das Eisenhutenwesen, Vol 22,
1951, No 11-12, pp 371-375.

Brutcher Tech Tr No 2932

A Contribution ~~ET~~ To the Question of Endurance
Strength With Varying Sample Size, by M. Hampel

Full translation.

GERMAN, Arch Eisenhüttenw, Vol 22, No 11/12, pp
425-436, 1951.

TPA3/TIB Tr No T 406

Scientific - Engineering

Index Aeronautics, March 1953

The Acid Smelting of Iron Ores Containing
Manganese for Obtaining Artificial Manganese
Ores and Their Smelting to Ferromanganese,
by P. Ischebeck, J. Willems.

GERMAN, per, Arch Eisenhüttenw. Vol XXIII,
No 1/2, 1952, pp 1-15.

TPA3/TIB T4492

Sci. Minerals/Metals

SLA 57-12-
30,065

Calcium Phosphate Melting Crucibles on the
Metallurgy of the Basic Bessemer Process, by
Gerhard Treemel, Willy Oelsen, 8 pp. UNCL

GERMAN, per, Arch fur das Eisenhuettenwesen, Vol
XXIII, 1952, pp 17-20. *CH 903774*

British Iron and Steel Ind 444

Sci - Min/Met; Chem
Apr 59

86,720

✓
Contribution to the Rapid Determination of Copper
in Steel by W. Koch and K. Behrens.

GERMAN, DFL. Archiv fur das Eisenhuettenwesen,
Vol XXIII, No 1/ 2, 1952, pp 35-36.

Brutcher Tr No 2864

Scientific - Min/Metals

13,974

Photometric Determination of Copper in Pig Iron and Carbon Steel, by W. Wern and A. Neuburger.

GERMAN, Archiv Fur Das Eisenhüttenwesen, Vol 23, 1952, No 1-2, pp 37-38.

Brutcher Tech Tr No 2865

Study of the Most Suitable Chemical Composition of
4% Cr, 2% Co, 0.5% W Permanent Magnet Steel by
W. Knorr

GERMAN, Archiv Fur Das Eisenhüttenwesen, Vol 23,
1952, No 1-2, pp 53-55.

Brutcher Tech Tr No 2855

Nondestructive Ultrasonic Testing by the Pulse-
Echo Technique, by A. Lutsch

GERMAN, per, Archiv Eisenhüttenwesen, Vol XXIII,
No 1-2, 1952, pp 57-65.

Brutcher Order No 3070
Price \$12.20

Scientific - Minerals/Metals Jun 53 CTS

2244

Mechanical Properties of Low-Alloy Heat-Treating
Steels Improved by Proper Adjustment of Heat-Treating
Temperatures and Times, by W. Bilander, H. Arend,
W. Neuhaus.

GERMAN, Archiv Fur Das Eisenhuttewesen, Vol XXIII,
1952, No 1-2, pp 67-72.

Butcher Tech Tr 2881

~~SECRET~~

Scientific - Minerals/Metals

12,343

Observations on Drastically Quenched Iron-Carbon
Metals, by G. Falkenhagen and W. Hoffmann.

GERMAN, Archiv Fur Das Eisenhutenwesen, Vol 23, 1952,
No 1-2, pp 73-74.

Butcher Tech Tr 2870

Metallurgy of Iron, Manganese and Phosphorus
Reactions in Basic Steelmaking, by Erich Witten,
19 pp.

GERMAN, per, Archiv fur das Eisenhutenwesen,
Vol XXIII, No 3/4, 1952, pp 83-93.

SLA 60-18632

Sci

Apr 61

146, 166

Spectroanalysis of Refractories by G. Hartleif and
H. Kornfeld.

GERMAN, Archiv Fur Das Eisenhutenwesen, Vol 23,
1952, No 3-4, pp 103-105.

Butcher Tech Tr No 2893

Rapid Spectro-Analysis of Metallurgical Slags,
by Gerhard Hartleif, Heinz Kornfeld, 12 pp.

GERMAN, per, Archiv fur das Eisenhüttenwesen,
Vol XXIII, No 3/4, 1952, pp 107-111.

SLA 60-18287

Brutcher Sec. 146, 109

Sci

Apr 61

Reflected Light Phase Contrast Microscope and Its
Application in Metallography, by F. Gabler,
R. Mitsche, 13 pp.

GERMAN, per, Archiv fur das Eisenhüttenwesen,
Vol XXIII, No's 3, 4, 1952, pp 145-150.

2-190

29,369

CIA/FDD/~~SECRET~~

Scientific - Physics
Min/Metals

Dec 55 CTS/DEX

Effect of Basic Oxides Upon the Desulfurization in the
Blast Furnace, Part I, by B. Weilandt, H. Metz,
W. Oelsen.

GERMAN, per, Archiv für das Eisenhüttenwesen, Vol. XXIII,
No 5-6, 1952, pp 153-168.

Butcher Trans No 2950

Scientific - Metallurgy, Chemistry, iron ores, oxides,
blast furnace, metasilicates

Effects of Basic Oxides Upon the Desulfurization in
the Blast Furnace, Part II, by E. Weilandt, H. Metz,
W. Oelsen. 37pp.

Full translation.

GERMAN, per, Archiv fur das Eisenhüttenwesen, Vol XXIII,
No 5-6, 1952, pp 168-172.

Brutcher Tr No 2951
SLA 63-16833

EEur - Germany

Scientific - Sulfur, blast furnace, oxides

The Deformation Conditions in Hot Deep-Drawing,
by D. Lenz

Full translation.

GERMAN, per, Arch Eisenhuttentv, Vol XXIII, No 5/6,
May/Jun 1952, pp 173-181.

TPA3/TIB Tr No T-4078

Scientific - Engineering
Index Aeronautics
Jun 53

CTS/DEX

2314

~~CONFIDENTIAL - SECURITY INFORMATION~~

Measuring the Instantaneous Values of Induction
and Field Strength and the Magnetization Losses
of Electrical Sheet, by W. Krug. UNCL

GERMAN, par, Arch Eisenhuettenwesen, Vol XXIII,
No 5/6, 1952, pp 207-215.

British Iron and Steel Inst
(no number given)

Sci - Min/Met; Phys
Sep 59

98,229

Effect of Powder Particle Size Upon Behavior of
Sintered Iron in Nitriding, by W. Koster, J.
Raffelsieper

GERMAN, per, Archiv Eisenhüttenwesen, Vol XXIII,
No 5-6, 1952, pp 225-228.

Brutcher Tr 3093

Scientific - Minerals/Metals
CTS/DEX Price \$6.40

8519

Incubation Time of Austenite Transformation With
Different Types of Cooling, by F. Weber, O. Krisement,

GERMAN, per, Archiv Eisenhüttenwesen, Vol XXIII,
No 5-6, 1952, pp 229-237.

Brutcher Tr 3039

Scientific - Minerals/Metals
CTS/DEX Price \$12.60

7844

Friction Under Roller Pressure at Different Modulus
of Elasticity, by Alfred Schafer. UNCLASSIFIED

GERMAN, per, Archiv fur das Eisenhuettenwesen, Vol
XXIII, No 7/8, Jul/Aug 1952, pp 253-256.

Navy Tr 582/BuShips 552

11,928

Scientific - Engineering

(U.S./DEV

Embriement of Austenitic Chrome-Nickel Steels at
High Temperatures. Part I., by G. Hoch

g.d.

GERMAN, per, Archiv Eisenhüttenwesen, Vol XXIII,
No 7-8, 1953, pp 257-263.

Brutcher Tr 3176

Scientific - Minerals/Metals

CTIS/DEX

Price \$9.75

8521

Embrittlement of Austenitic Chrome-Nickel Steels
at High Temperatures. Part II, by G. Hoch

GERMAN, per, Archiv f. d. Eisenhüttenwesen, Vol
XXIII, No 7-8, 1952, pp 263-272.

Brutcher Tr 3177

Scientific - Minerals/Metals
CTS/DEX

Price \$9.40

9294

Embrittlement of Austenitic Chroma-Nickel Steels at
High Temperatures, by G. Hoch,
part III,

GERMAN, Archiv f. d. Eisenhüttenwesen, Vol XXIII,
No 7-8, 1952, pp 272-276,

Brutcher Tr 3178

52A-57-2636

10455

Sci - Min/Metals

CTS/DEX

Price \$7.90

Influence of Structure of P h in Carbon and
Alloy Steels Upon the Spark Stream in Spark
Testing, by J. Hunger, O. Werner

GERMAN, per, Archiv f. d. Eisenhüttenwesen, Vol
XXIII, No 7-8, 1952, pp 277-286.

Brutcher Tr 3198

Scientific - Minerals/Metals

GEN CTS/DEX

Price \$13.75

9291

Determination of the Residual Stresses on
Finished Work Pieces, by H. Bühler, 10 pp.

GERMAN, per, Archiv für das Eisenhüttenwesen,
Vol XLIII, No 7/8, 1952, pp 293-297.

S. L. A.

Scientific - Engineering

CTB 68/May 55

23,638

Magnetizing Roasting of Low-Grade Iron Ores, by
H. Hendricks, G. Scheibe

GERMAN, per, Archiv f. d. Eisenhüttenwesen, Vol
XXIII, No 9-10, 1952, pp 321-324.

Brutcher Tr 3212

Scientific - Minerals/Metals

CTS/DEX

Price \$6.60

9282

Trial Production of Low-Nitrogen Steels in Basic-
Lined Baby Converter, by K. G. Speith, H. Ducken

P.P

GERMAN, per, Archiv Eisenhüttenwesen, Vol XLIII,
No 9-10, 1952, pp 325-333.

Bratcher Tr 2997

Scientific - Minerals/Metals

CTS/DEX

Price \$9.60

8528

Strain Measurements in Gray Cast Iron by X-ray and
Mechanical Methods, by V. Hauk, UNCLASSIFIED

SCMIAF, per, Archiv Eisenhüttenwesen, Vol XLIII,
No 9/10, 1952, pp 353-361.

Brutcher No 3209

Scientific - Min/Metals

\$7.60

15,480

Surface Impregnation of Plain Carbon Steel with
Tungsten or Molybdenum from Salt Baths, by E. Fitzer.

GERMAN, per, Archiv fur das Eisenhuttewesen, Vol XLIII,
No 9-10, 1952, pp 369-375.

Brutcher Trans No 2975

Scientific - Metallurgy, tungsten, molybdenum, steel

Carburizing, Nitriding, and Siliconizing of Tungstenized and Molybdenized Cases on Iron and Steel, by E. Fitzer.

Full translation.

GERMAN, per, Archiv fur das Eisenhüttenwesen, Vol XXIII, No 9-10, 1952, pp 377-382.

Brutcher Tr No 2982

EEur - Germany

Scientific - Electrolytic, iron, steel

The Treatment of Liquid Open-Hearth Steel With
Solid Electric Furnace Slag, and the
Metallurgical Processes During Tapping, by
Heinz Siegel, 15 pp.

GERMAN, per, Archiv fur das Eisenhutenwesen,
Vol XXIII, No 11/12, 1952, pp 417-425.

SLA 60-18288

Sci

Apr 61

146,158

Electromagnetic Alternating-Field Technique for
Nondestructive Testing of Ferrous Metals, by
H. Goebbels.

GERMAN, per, Archiv Eisenhüttenwesen, Vol XXIII,
No 11-12, 1952, pp 443-448.

Brutcher Tr 3139

Scientific - Minerals/Metals

Price \$8.80

Nov 53 CTS

7270

Crystallographic Relationships in the Transformation
of Iron, by H. Neerfeld. UNCLASSIFIED.

GERMAN, per, Archiv Eisenhüttenwesen, Vol XXIII,
Nos 11, 12, 1952, pp 471-473.

Brutcher Tr No 3341

Metals

Scientific - Min/~~Metals~~

17,368

The Treatment of Pig Iron and Steel With Slags as
a Means of Improving the Quality of the Steel,
by Eduard Benfter, 23 pp.

GERMAN, per, Archiv fur das Eisenhutenwesen,
Vol XXIV, No 1/2, 1953, pp 1-10.

SLA 60-18633

Sci

Apr 61

146, 115

Ultrasonic Testing of Steel Rolls and Steel
Cylinders, by H. J. Seemann, W. Bantz

p.d.

GERMAN, per, Archiv Eisenhüttenwesen, Vol XXIV,
No 1-2, 1953, pp 47-52.

Brutcher Tr 3118

Scientific - Minerals/Metals
CTS/DEX Price \$5.60

7897

Flow Processes in Branch Pipes as a Basis for
Coke-Oven Heating, by P. Veit. UNCL

GERMAN, per, Arch Eisenhuettenwesen, Vol XXIV,
No 3/4, 1953, pp 93-103.

British Iron and Steel Ind
(no number given)

Sci - Phys
Sep 59

98,420

Formation and Properties of Delta Iron (Ferrite)
and Sigma Phase in Austenitic Chromium-Nickel Steels.
Part I, by H. Buchholtz, H. Krachter, F. Kraemer.

GERMAN, per, Archiv fur Eisenhüttenwesen, Vol XXIV,
No 3-4, 1953, pp 113-119.

Butcher Tr 3150

Scientific - Minerals/Metals

Price \$9.80

Nov 53 CTS

7280

Formation and Properties of Delta Iron (Ferrite) and
Sigma Phase in Austenitic Chromium-Nickel Steels, Part
II, by H. Buchholtz, H. Krachter, F. Kraemer

GERMAN, per, Archiv Eisenhüttenwesen, Vol XXIV, No 3-4,
1953, pp 119-125.

Brutcher Tr 3151

Scientific - Minerals/Metals

CTS/DEX

Price \$9.85

7853

On the Irreversibility of Iron-Nickel Alloys, by
E. Schell,

GERMAN, per, Archiv Eisenhütten, Vol XXIV, Nos 3/4,
1953, pp 153-160.

Brutcher Tr No 3349
\$9.80

Scientific - Min/Metals

Feb 55 CTS

21,080

Nucleation in Transformations in the Irreversible
Iron-Nickel Alloys, by G. Masing, O. Nickel.

GERMAN, per, Archiv Eisenhüttenwesen, Vol XXIV,
Nos 3, 4, 1953, pp 143-151.

Brutcher Tr
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Scientific - Min/Metals

Jan 55 CTE/DRK

20,898

Theory of Scaling Processes on Metallic Alloys,
by Hauffe, Karl.

GERMAN, per, Arch. Eisenhüttenw., Vol XXIV, No 3/4,
1953, pp 161-171.

AEC 2504
Assoc Tech Sv

66GTG

33,047

Sci - Engineering, Electricity, Minerals/Metals.

(#17.15)

The Diffusion Grain Growth of Iron Alloys,
by F. Erdmann-Jesnitzer.

GERMAN, per. Arch Eisenh. No 24, 1953, pp 215-
228.

*NBS TT 70-57485

Sol-Mat
Aug 70

Ultrasonic Inspection by the Through-Transmission
and Pulse-Reflection Methods, by H. Krainer,
E. Krainer.

GERMAN, per, Archiv Eisenhüttenwesen, Vol XLIV, Nos
5, 6, 1953, pp 229-236.

Brutcher Tr No 3378

Scientific - Min/Metals
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14, 712

Dec 54 CTS/DEX

\$8.60

Effect of Surface Treatment Upon Sintering
Characteristics of Metal Powders, by G. Naeser,
H. Burmeister, UNCLASSIFIED

GERMAN, per, Archiv Eisenhüttenwesen, Vol. XXIV,
No 5/6, pp 251-255.

Brutcher: 3273

Scientific - Min/Metals \$7.80

15,469

Corrosion-Resistant Cemented Carbides (Part I of
Paper entitled "Cemented Carbides With High Resistance
to Corrosion and Scaling)", by J. Hinnuber, O. Rudiger.

GERMAN, ~~1/4~~, Archiv Eisenhüttenwesen, Vol XXIV, No 5-6
1953, pp 267-269.

Brutcher Trans No 3135

Scientific - Minerals/Metals

Sep 53 CTS

\$3.90 price

4853

Scaling-Resistant ~~the~~ Cemented Carbides (Part II of
"Cemented Carbides With High Resistance to
Corrosion and Scaling, by J. Hinuber, O. Rudiger

GERMAN, per, Archiv Eisenhüttenwesen, Vol. XXIV,
No 5-6, 1953, pp 269-274.

Brutcher Tr 3136

Scientific - Minerals/Metals
CTS/DEX

Price ~~\$~~ \$7.40

5932

The Relationship of Physical Condition of the Material
to Phenomena of Hydrogen Diffusion in Unalloyed Steel,
by Herman Schumann, Friedrich Erdman-Jasnitzer.

GERMAN, per, Archiv fuer das Eisenhuettenwesen, Vol
XXIV, No 7/8, Jul/Aug 1953, pp 353-360.
CIA 605249

Navy Tr 1534/NRL-636

Sci - Min/Met

Oct 57

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Some Observations Regarding the Creep Behavior of
Zirconium-Alloyed Steels at 500° C, by W. A.
Fischer

GERMAN, per, Archiv für das Eisenhüttenwesen, Vol XXIV,
No 9-10, 1953, pp 397-400.

Brutcher Tr 3328

Scientific - Minerals/Metals
Jul CTS/DHX

15,972
Price \$5.40

Ultrasonic Testing of Intricately Shaped Parts,
by E. Martin, K. Werner,

GERMAN, per, Archiv Eisenhuten, Vol XXIV, No 9-10,
1953, pp 111-122.

Brutcher Tr No 3291

13,733

Scientific - Min/Metals, Engineering

The Influence of Deformations at Low Temperatures
on the Properties of Austenitic Stainless
Steels, by K. Bungardt, R. Oppenheim,
R. Scherer,

GERMAN, per, Arch Eisenhuttew., Vol XXIV,
No 9-10, 1953, pp 423-430.

20,867

TPA3/TIB
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Scientific - Min/Metals

Feb 55 CTS

On the Cooling Curve of Spheroidal Graphite Cast Iron,
by A. Wittmeyer. UNCLASSIFIED.

GERMAN, per, Archiv Eisenhüttenwesen, Vol XXIV, Nos 9,
10, 1953, pp 431-434.

Brutcher Tr No 3358

Scientific - Min/Metals

17, 369

Contributions to the Analysis of x Structural
Components in Pig and Cast Iron, by A. Koch, J. Bruch,

GERMAN, A per, Archiv ~~xx~~ Eisenhüttenw, Vol XXIV,
x No 11/12, 1955, pp 457-x464.

CRL/T.934

Sci
Dec 62

Spectrographic Determination of Surface Car-
burization and Decarburization, by W. Raetke. UNCL

GERMAN, pac, Arch Eisenhuettenwesen, Nov-Dec 1958,
1958, pp 465-467.

British Iron and Steel Ind
(no number given)

Sci - Phys
Sep 59

98, 209

Wall Thickness Measurement of Steel Bottles
in Production, by F. Bollenrath, V. Fank. WZL

GERMAN, per, Arch Eisenhuettenwesen, Vol XXIV,
No 11/12, 1953, pp 515-518.

British Iron and Steel Ind
(no number given)

Ref. 10000
Sep 59

98,134

Metallographic Examination of Nonmetallic
Inclusions in Steel by Means of a New Thin-
Section Method, by Erich Folkhard, 16 pp.

GERMAN, per, Archiv fur das Eisenhüttenwesen.
Vol XIV, No 11/12, 1953, pp 519-522.

SLA 59-10099

Sci Min/Met
Jun 59
OTS I, 10

JA 59/102

89,721

Permanent Magnets of ~~XXX~~ Barium Oxide and Ferric Oxide
by H. Fahlenbrach, W. Heister,

GERMAN, ~~DEU~~, Archiv f. ~~D.~~ Eisenhüttenwesen, Vol XLIV,
No 11-12, 1953, PP 523-528

Brutcher Tr 3229

10,448

Price ~~DM~~ 9.90

Process of Oxidation of Titanium Carbide - Cobalt
Compositions, *W. Kinne; O. Rüdiger*

GERMAN, per, Archiv für das Eisenhüttenwesen,
Vol XXIV, No 11-12, 1953, pp 535-542.

Brutcher Tr 3223

Scientific - Minerals/Metals
CIS/DEX Price \$13.40

11,396

The Metallurgical Behaviour of Chrome Ores,
by D. Hogenes, G. Volkert. UNCLASSIFIED

GERMAN, per, Arch Eisenhuettenwesen, Jan/Feb
1954, pp 1-10.

Iron and Steel Inst Tr 1024
(L7.O.O)

71,749

Sci - Min/Met
Aug 53

The Sampling of Ores and Slags in Iron-
making, by Kurt Mohl, 12 pp.

GERMAN, per, Archiv fur das Eisenhüttenwesen,
Vol XXV, No 1/2, 1954, pp 33-38.

SLA 60-18634

Sci

Apr 61

146, 140

Supercooling of Transformation Processes as
as a Basis for the Martensite Transformation,
by E. Houdremont, (Part I), by O. Krisement,

GERMAN, per, Archiv Eisenhüttenwesen, Vol XXIV,
No 1-2, 1954, pp 53-63.

23,151

Brutcher Tr No 3339
\$8.80

Scientific - Min/Metals

Apr
May 55 CTS

Supercooling of Transformation Processes as a
Basis for the Martensite Transformation
Transformation, Part II, by E. Roudremont,
O. Krissent,

GERMAN, per, Archiv f.d. Eisenhüttenwesen,
Vol XXIV, No 1/2, 1954, pp 63-67.

23,613

Bratcher Tr No 3340
#8.20

Scientific - Min/Metals

May 55 CTS

Hoenes, Dieter and Volkert, G.
THE METALLURGICAL BEHAVIOUR OF CHROME
ORES. [1959] [30]p. 8 refs.
Order from S.L.A. \$2.60

61-18408

Trans. of Archiv für das Eisenhüttenwesen (West
Germany) 1954 [v. 28, no. 1] p. 1-10.

DESCRIPTORS: Metallurgical analysis, *Ores, *Chro-
mium alloys, Processing, Refineries, Minerals, Slags,
Chemical reactions, Melting, *Iron compounds, Indus-
trial plants.

From investigations on various chrome ores and fur-
nace residues, a residue of "bottom fast" ores after the
pre-melting (a condition necessary for the most satis-
factory refining behaviour), can be expected from all
ore deliveries if they contain adequate amounts of dense
chromite, i.e., chromite which is not mixed with sili-
cates, especially serpentine. The presence of olivine
(Metallurgy-Ferrous Metals, TT, v. 6, no. 10) (over)

61-18408

I. Hoenes, D.
II. Volkert, G.

1263

Office of Technical Services

Nielsen, E. J.
RAPID POLISHING OF METALLOGRAPHIC CAST
IRON SPECIMENS. [1962] 13p. 14 refs.
Order from SLA \$1.60

62-18950

Trans. of Archiv für das Eisenhüttenwesen (West
Germany) 1954, v. 25, p. 89-92.

DESCRIPTORS: *Cast iron, Metallography, *Electro-
lytic polishing, Impurities, Graphite.

An alternating polishing method for the polishing of
metallurgical sections with nonmetallic inclusions
which are not affected by the electrolytic process, is
described. In this method, electrolytic polishing is
followed by mechanical polishing. Thus far, the method
has proved particularly suitable for gray cast iron and
malleable cast iron with graphite inclusions. The ap-
propriate procedure, particularly for avoiding a super-
(Metallurgy--Ferrous Metals, TT, v. 9, no. 6)

62-18950

I. Nielsen, E. J.

Office of Technical Services

Electrochemical Processes Taking Place During the
Electrolytic Isolation of Structural Components of
Steels Using Alternating Current, by W. Koch, et al.

GERMAN, per, Archiv fuer das Eisenhuettenwesen,
Vol XXV, No 3, 4, 1954, pp 93-106.

CRL/T. 959

Sci
Jun 63